

Name	Security Level
BELLSING™ Hornet Series AMBA Receiver	Open
Version	A Total of 4 Pages
REV A	

BRC530C10012

Product Data Sheet

Prepared by: _____	Date: 2016-04-18
Auditor: _____	Date: _____
Approver: _____	Date: _____



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

BRC530C10012 AMBA receiver

1.1 Description

Advanced Miniature balanced-armature (AMBA) receiver with magnetic-radiation shielding for use in in ear monitor & headset

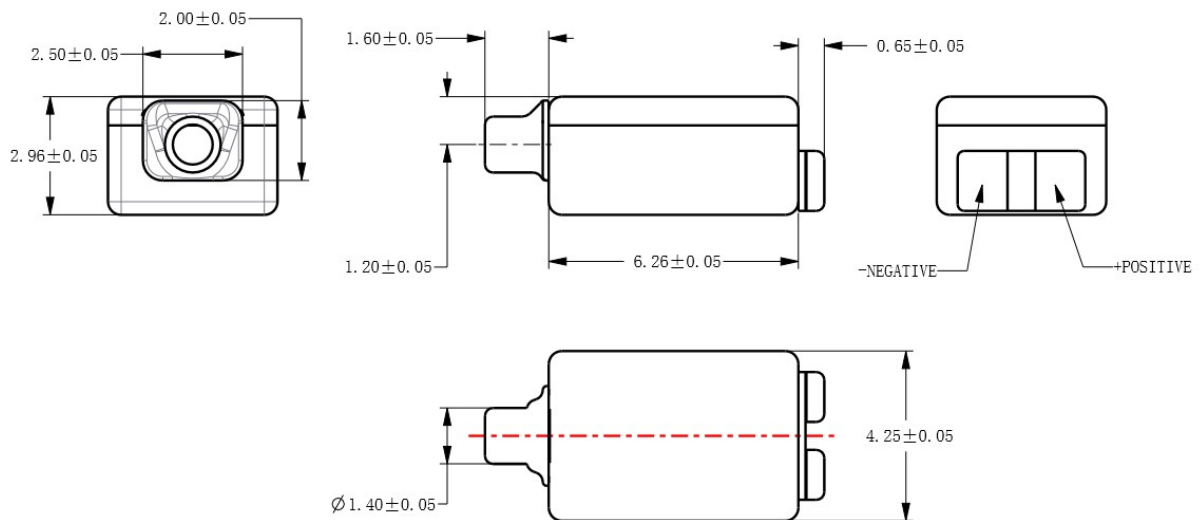
Name:	Hornet Series AMBA Receiver
Part Number:	BRC530C10012 REV A

1.2 Construction Specification



Weight: 0.28 g

Mechanical dimension: please refer to the drawing below



1.3 Features&Benefits

- Perfect package size for in-ear monitor and headset applications
- Outstanding efficiency
- Substantial maximum output
- Magnetic-radiation shielded
- Optimized mechanical shock resistance
- Water resisted

1.4 Electro-acoustic Specifications

Test condition

- Acoustic tubing: 10.0mm of 1.0mm diameter tubing
- Acoustic coupler: IEC711 coupler (volume of 2cc)
- Constant voltage drive: 0.12V RMS
- Environment: 23°C, RH 50%

Acoustic Parameter I

Test Item		Nominal	Tolerance	Comments
Sensitivity(dB)	@200Hz	115.2	+/- 3.0	
	@500Hz	113.1	+/- 3.0	
	@1000Hz	112.0	+/- 3.0	
Peak1	Frequency (Hz)	2500	+/- 350	
	SPL(dB)	120.8	+/- 3.0	
Peak2	Frequency (Hz)	5000	+/- 500	
	SPL(dB)	115.7	+/- 3.0	
Maximum output@Peak frequency (dB)		128	N/A	THD<10%

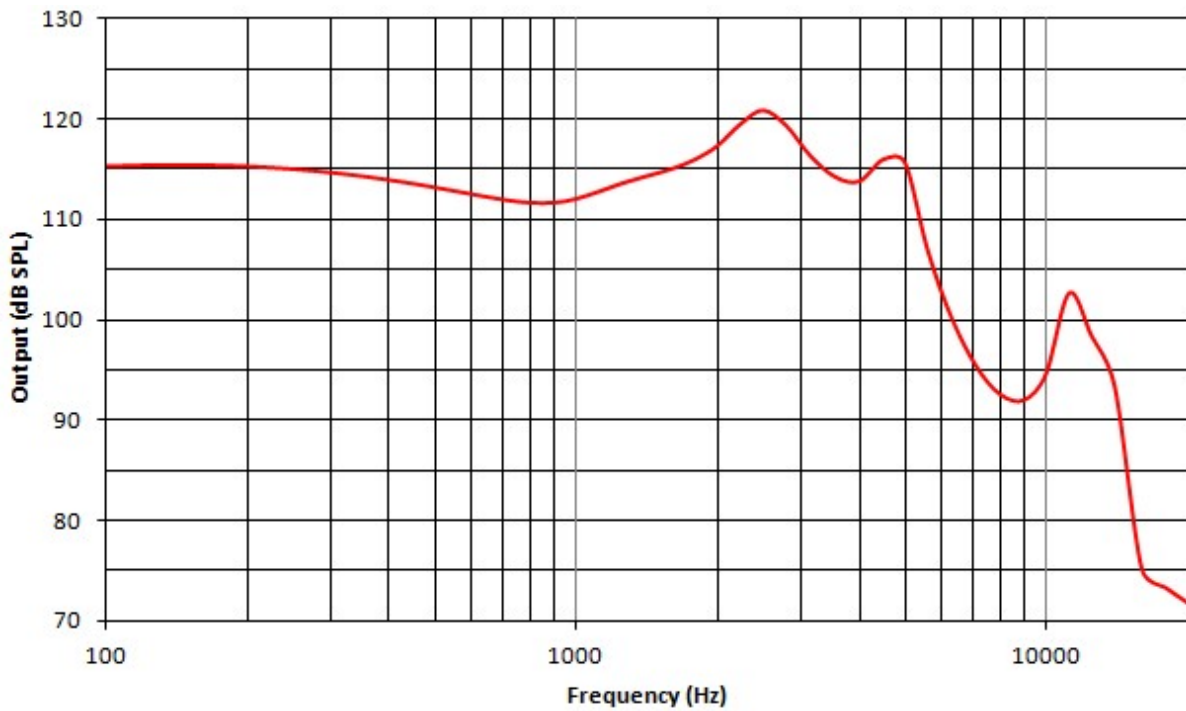
Acoustic Parameter II

Test Item		Nominal	Comments
THD(%)	@1/2 1 st peak	<5.0	
	@1/3 1 st peak	<5.0	
	@500Hz	<5.0	

Electric Parameter

Test Item	Nominal	Tolerance	Comments
Impedance(Ω)	@500Hz	19.0	+/- 15%
	@1000Hz	36.0	+/- 15%
DCR(Ω)	12.0	+/- 10%	

Nominal Frequency Response Curve



1.5 Package and Storage Condition

- Package: PET bubble pack, 2pc per bubble, 200pcs per pack
- Storage temperature range: -40°C ~ 60°C
- Storage humidity range: <60%